

1 **In the Claims**

2 Please amend claims 18 and 26 as indicated below:

3 1. (ORIGINAL) A Web server input string screening method
4 comprising:

5 determining an attack pattern that can be used to attack a Web server;

6 defining a search pattern that can be used to detect the attack pattern, the
7 search pattern being defined in a manner that permits variability among its
8 constituent parts;

9 receiving an input string that is intended for use by a Web server;

10 evaluating the input string using the search pattern to ascertain whether the
11 attack pattern is present; and

12 implementing a remedial action if an attack pattern is found that matches
13 the search pattern.

14
15 2. (ORIGINAL) The Web server input string screening method of
16 claim 1, wherein:

17 said defining comprises defining a plurality of different search patterns; and

18 said evaluating comprises evaluating the input string using said plurality of
19 different search patterns.

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21 3. (ORIGINAL) The Web server input string screening method of
22 claim 1, wherein the search pattern is specified as a regular expression.

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24 4. (ORIGINAL) The Web server input string screening method of
25 claim 1, wherein said receiving of the input string comprises receiving a URL.

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2 5. (ORIGINAL) The Web server input string screening method of
3 claim 1, wherein said receiving of the input string comprises receiving a portion of
4 an HTTP verb request.

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6 6. (ORIGINAL) The Web server input string screening method of
7 claim 1, wherein said implementing comprises denying a request that is associated
8 with the input string.

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10 7. (ORIGINAL) A Web server input string screening method
11 comprising:

12 defining one or more search patterns that comprise literal characters and
13 special characters, wherein the literal characters indicate exact characters in an
14 input string that is intended for receipt by a Web server, and the special characters
15 indicate variable characters in an input string that is intended for receipt by the
16 Web server, the search patterns being usable to search for an attack pattern that
17 can be used to attack the Web server; and

18 storing the one or more search patterns in a memory location that is
19 accessible to a screening tool for evaluating an input string that is intended for
20 receipt by the Web server.

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22 8. (ORIGINAL) The Web server input string screening method of
23 claim 7 further comprising:

24 retrieving a search pattern from the memory location; and
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1 evaluating an input string with the screening tool by ascertaining whether
2 the input string includes at least a portion that matches the search pattern.

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4 9. (ORIGINAL) The Web server input string screening method of
5 claim 8, wherein the evaluating of the input string comprises evaluating a URL.

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7 10. (ORIGINAL) The Web server input string screening method of
8 claim 8, wherein the evaluating of the input string comprises evaluating a portion
9 of an HTTP verb request.

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11 11. (ORIGINAL) The Web server input string screening method of
12 claim 7 further comprising implementing the screening tool as an extension for an
13 existing Web server.

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15 12. (ORIGINAL) The Web server input string screening method of
16 claim 7 further comprising implementing the screening tool as an ISAPI extension.

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18 13. (ORIGINAL) A Web server input string screening method
19 comprising:

20 defining one or more search patterns that are specified as a regular
21 expression, the search patterns being usable to search for an attack pattern that can
22 be used to attack the Web server; and

23 storing the one or more search patterns in a memory location that is
24 accessible to a screening tool for evaluating an input string that is intended for
25 receipt by the Web server.

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2 14. (ORIGINAL) The Web server input string screening method of
3 claim 13 further comprising:

4 retrieving a search pattern from the memory location; and
5 evaluating an input string with the screening tool by ascertaining whether
6 the input string includes at least a portion that matches the search pattern.
7

8 15. (ORIGINAL) The Web server input string screening method of
9 claim 14, wherein the evaluating of the input string comprises evaluating a URL.
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11 16. (ORIGINAL) The Web server input string screening method of
12 claim 14, wherein the evaluating of the input string comprises evaluating a portion
13 of an HTTP verb request.
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15 17. (ORIGINAL) A computer-readable medium having computer-
16 readable instructions thereon which, when executed by a computer, perform the
17 method of claim 14.
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19 18. (CURRENTLY AMENDED) A Web server input string screening
20 tool embodied on a computer-readable medium comprising:

21 a pattern matching engine that is configured to receive an input string that
22 is intended for use by a Web server and evaluate the input string to ascertain
23 whether it likely constitutes an attack on the Web server; and
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1 one or more patterns that are usable by the pattern matching engine to
2 evaluate the input string, the patterns being defined in a manner that permits
3 variability among the constituent parts of the one or more patterns.

4
5 19. (ORIGINAL) The Web server input string screening tool of claim
6 18, wherein the one or more patterns are specified as regular expressions.

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8 20. (ORIGINAL) The Web server input string screening tool of claim
9 18, wherein the pattern matching engine is configured to receive an input string
10 that comprises a URL.

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12 21. (ORIGINAL) The Web server input string screening tool of claim
13 18, wherein the pattern matching engine is configured to receive an input string
14 that comprises a portion of an HTTP verb request.

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16 22. (ORIGINAL) One or more computer readable media having
17 computer-readable instructions thereon which, when executed by a computer
18 perform the following steps:

19 receiving an input string that is intended for use by a Web server;

20 evaluating the input string using a search pattern to ascertain whether the
21 input string contains an attack pattern that can be used to attack the Web server,
22 the search pattern comprising literal characters and special characters, wherein
23 literal characters indicate exact characters in the input string, and the special
24 characters indicate variable characters in the input string; and
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1 implementing a remedial action if an attack pattern is found that matches
2 the search pattern.
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4 23. (ORIGINAL) The computer-readable media of claim 22, wherein
5 said implementing comprises denying a request that is associated with the input
6 string.
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8 24. (ORIGINAL) The computer-readable media of claim 22, wherein
9 said receiving comprises receiving a URL.
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11 25. (ORIGINAL) The computer-readable media of claim 22, wherein
12 said receiving comprises receiving an input string that is associated with an HTTP
13 verb request.
14

15 26. (CURRENTLY AMENDED) A collection of Web server screening
16 patterns embodied on a computer-readable medium comprising:

17 a memory; and

18 a plurality of attack patterns stored in the memory, the attack patterns being
19 useable to screen input strings that are intended for use by a Web server,
20 individual attack patterns being defined in a manner that permits variability among
21 their constituent parts.
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23 27. (ORIGINAL) The collection of claim 26, wherein the patterns are
24 specified as regular expressions.
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2 28. (ORIGINAL) The collection of claim 26, wherein the collection is
3 adapted for addition to, deletion of, or modification of patterns.

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5 29. (ORIGINAL) The collection of claim 26, wherein the patterns are
6 configured for use in screening URLs that are intended for use by a Web server.

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8 30. (ORIGINAL) The collection of claim 26, wherein the patterns are
9 configured for use in screening input strings associated with HTTP verb requests
10 that are intended for use by a Web server.

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12 31. (ORIGINAL) The collection of claim 26 configured for use by an
13 ISAPI extension.
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